

HEAT-RESISTANT PAPER AND ITS PRODUCTION

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Abstract of JP9021089

PROBLEM TO BE SOLVED: To obtain heat-resistant paper by making paper from a pulp component comprising a melt liquid crystal polyester and a fiber component having low dry heat shrinkage in a wet state, hot pressing the paper, having both heat resistance and mechanical strength, suitable for electric insulating paper, a building material, etc.

SOLUTION: A pulp composition comprising a melt liquid crystal polyester obtained by polymerizing p-hydroxybenzoic acid with 2-hydroxy-6-naphthoic acid is mixed with 5-50wt.%, preferably 20-40wt.% of a glass fiber, etc., having 5%, preferably $\leq 2\%$ dry hot shrinkage factor as a fiber component and made into paper in a wet state. Then the paper is hot pressed at 180-300 deg.C, preferably 240-290 deg.C under 50-250kg/cm, preferably 100-250kg/cm linear pressure to give the objective heat resistant paper having $\leq 3\%$ dry heat shrinkage factor and ≥ 50 kg/6mm release strength.

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